



KAISER • HILL
COMPANY

INTEROFFICE MEMORANDUM

DATE April 14, 2004
TO V Pizzuto
FROM H Linsinbigler
SUBJECT Memo of Understanding for the Demolition of B707/776/777/778 and Associated Buildings

The Paul White "Acceptance of KHC Proposal for B707/776/777 Demolition" email dated February 2, 2004 provides the authorization for KHC to proceed with the preparation and demolition of the stated structures

The authorization is for Option #1 of the Cost/Schedule proposal submitted to Tom Dieter on January 29, 2004 Option #1 includes

Work Schedule	2 Shifts X 12 Hrs X 5 Days
Demolition Sequence	Ancillary Buildings/B778=>B707=>B776/777 Demolitions will overlap
Scheduled Start Date	Preparation work to begin in FY04 with demolition to begin October 1, 2004 Early demolition of ancillary structures may be performed prior to October 1, 2004 at the client's direction
Scheduled End Date	March 9, 2005 – Date is based upon 100 percent availability of the work site with no delays
Estimated Cost	\$8,432,769 – Cost is based upon vendor quotes at the time the estimate was developed Vendor prices may vary upon final negotiated contracts

The schedule and cost estimates were developed without the inclusion of contingencies, at the request of Tom Dieter The project cost and schedule will be reviewed monthly to calculate the forecast actual cost and completion date The B707/776/777 Project Manager has the right to modify the scope and conditions of this demolition project at any time

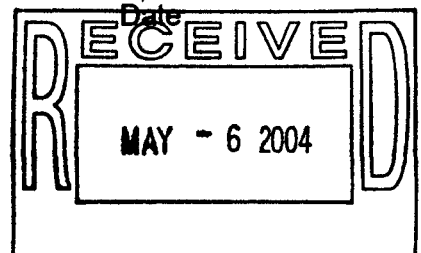
Concurrence

Harry Linsinbigler

Date

Attachments (3)

Victor Pizzuto



"SAFETY IS CRITICAL TO OUR SUCCESS"

ADMIN RECORD
B776-A-000100

Wren, Victoria

From Linsinbigler, Harry
Sent Monday, February 02, 2004 7 36 AM
To Hill, Michael D
Cc Wren, Victoria, Flannery, Mike, Chojnacki, David
Subject FW Acceptance of KHC Proposal for B707/776/777 Demolition

Harry Linsinbigler
Kaiser Hill Construction Group Manager
Rocky Flats Environmental Technology Site

-----Original Message-----

From: White, Paul
Sent Monday, February 02, 2004 7 31 AM
To Ferrera, Denny, Gibbs, Frank, Linsinbigler, Harry
Cc Dieter, Thomas, Brown, Maurice, Pizzuto, Victor, Kerridge, Jeffrey, Druckman, Howard, Kury, Robert, Henderson, Brian, Lee, Christopher, Foss, Dyan, Robben, Karen
Subject Acceptance of KHC Proposal for B707/776/777 Demolition

Tom Dieter and Company have accepted the Kaiser-Hill Construction proposal for the demolition of B707/776/777. In the near future, will be forwarding you a scope statement, organizational chart with management/oversight responsibilities and initiate more substantial communication for planning.

As stated in the proposal, KHC will provide operators, equipment and ground support during demolition operations. B707/776/777 personnel will be responsible for health and safety, rad ops, environmental, inter-project coordination with Material Stewardship and general oversight.

If you have any further questions, please contact Tom Dieter at x5729.

Paul J. White
B707/776/777 Project Controls
x 9842, Fax 2414
Pager 303-212-2295

me

707/776/777 Area Estimate

January 29, 2003

All work performed under this proposal will be accomplished in accordance with RFETS site standard policies and procedures. Estimate is based on the established Kaiser-Hill Demolition Team knowledge and experience for this type of facility with special considerations for dealing with radiological hazards.

SCOPE

The scope of this proposal includes demolition of the following buildings in the 700 complex

Building 701

Demolition and waste load-out of building structure, slab and foundations to four feet (4') below grade

Building 702

Demolition and load-out of only the building slab and foundations to four feet (4') below grade

Building 703

Demolition and load-out of only the building slab and foundations to four feet (4') below grade

Building 707

Demolition and load-out of building structure, including any and all mechanical and electrical components and equipment left within, slab, foundations, grade beams and footings

Building 707S

Demolition and load-out of building structure

Building 708

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade

Building 709

Demolition and load-out of cooling tower slab and foundations to four feet (4') below grade

Building 710

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade

Building 711

Demolition and load-out of cooling tower slab and foundation to four feet (4') below grade

Building 711A

Demolition and load-out of slab and foundation to four feet (4') below grade

Building 712

Demolition and load-out of cooling tower slab and foundation only to four feet (4') below grade

Building 713

Demolition and load-out of cooling tower slab and foundation only to four feet (4') below grade

Building 713A

Demolition and load-out of valve pit to four feet (4') below grade

Building 718

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade

Building 730

Demolition and load-out of building structure and pit to 4' below grade

Building 731

Demolition and load-out of building structure and pit to 4' below grade

Building 732

Demolition and load-out of building structure and pit to 4' below grade

Building 776/777

Demolition and load-out of building structure, including any and all mechanical and electrical components and equipment left within, slab, pits, basement, foundation and footings All concrete will be completely removed

Building 778

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade

Building 781

Demolition and load-out of helium compressor pit to four feet (4') below grade

Retaining Wall

Demolition and load-out of retaining wall between B777 and 779 slab

Process Waste Line

Removal and load-out of process waste line, approximately fifty feet (50'), which runs from B776 to Valve Vault 9

ASSUMPTIONS

All Buildings

- 1 707/776/777 Project will be responsible for interfacing (i.e. notification, approvals, and correspondence) with RFETS departments and outside agencies
- 2 All sanitary waste will be hauled out using end dump trucks
707/776/777 Project will be responsible for arrangements with Material Stewardship to provide 24-hour support if needed
- 3 This estimate does not include final grading or removal of any mechanical or electrical components below four feet (4')
- 4 An allowance has been included in this estimate to cover supplies and consumables needed for the demolition of this project
- 5 Temporary lighting has been included in this estimate KH
Demolition will subcontract with Gash Electric to set-up and maintain lighting Estimate is based on utilization of existing onsite power
- 6 Installation of silt fence and straw bales has been included in the estimate Plans for placement of the silt fence and straw bales will be provided by 707/776/777 Project
- 7 707/776/777 Project will provide fogging equipment, while the cost of fixative and general dust control measures (water spraying) is included in this estimate
- 8 The 21 storage tanks are not included in this estimate, due to the unknown locations at the time of estimate preparation

- 9 707/776/777 Project is responsible for providing the following support personnel and associated equipment Health & Safety, Industrial Hygiene, RCT's, Radiological Engineering, Waste Personnel, CCA and Engineering Support
- 10 There have been no allowances made for any delays due to inclement weather
- 11 Training is based on RFETS Site Standards, no special training is included (e g 40 Hr Haz Waste Ops)
- 12 707/776/777 Project will be responsible for the blocking/sealing of the tunnel to Building 771 at the 776 end before the start of demolition
- 13 The removal of miscellaneous items and pads within 20' of building footprints has been included in this estimate
- 14 An allowance has been included to cover maintenance and repair costs of all KH Demolition equipment
- 15 KH Demolition Team will set up a local heavy equipment fueling station 707/776/777 Project will be responsible for obtaining all approvals (e g Site SAR, Fire Dept , etc) necessary to operate and fill the fueling station The station will utilize the existing above ground tank from Building 708 Estimated fuel usage is 1200 gallons per shift
- 16 A construction boundary will be maintained with the project Rad RBA boundary as a minimum Entrance/exit locations will be established with input from Radiological Operations
- 17 All maintenance of equipment will be scheduled for Saturdays to lessen the impact to the project

Building 707

- 1 This estimate is based on the assumption that modules J and K are radiologically uncontaminated (i e sanitary waste)
- 2 Demolition and load-out of grade beams and foundations from Building 707 is not included in this estimate based on the final grading plan

Building 776/777

- 1 707/776/777 Project will be responsible for the disposal of all equipment fluids (e g , oils, hydraulic fluids, greases, etc), and filters (including HEPA, fuel, oil, air filters, etc)
- 2 The lead (Pb) collar located in Room 443 will be removed with an excavator using a picking eye so as to minimize any damage to the collar
- 3 There is no TRU waste removal included in this estimate
- 4 707/776/777 Project will supply LLW containers as required for load-out, including maintenance, repairs and linings The number

- of containers required will be based on experience and review of past projects
- 5 This estimate includes the complete removal of all pits, vaults and the basement
- 6 There are no allowances made in this estimate to cover the cost of sampling, pumping or collection of incidental waters in exposed pits
- 7 The removal of non-contaminated gravel under the 776/777 building is included in this estimate UBC contaminated gravel and soil will be dispositioned by ER
- 8 707/776/777 will provide all clothing, respirators, lockers and shower facilities needed for the demolition and load-out of 776/777 activities 707/776/777 will also be responsible for the waste disposal of the items above
- 9 The single shift option will increase the amount and cost of fixative application for unattended demolition piles This adds at least six (6) more applications per week
- 10 The removal of the OPWL from Building 776 to Valve Vault 9 is included in the 776/777 demolition activities
- 11 The removal and load-out of the east retaining wall and Building 781 is included in the 776/777 demolition activities
- 12 The heavy equipment will be set up with HEPA filtration for 776/777 activities, and the operators will be permitted to wear half face respirators while in the cab of the equipment
- 13 The estimate includes one attempt to decontaminate all equipment However, if unsuccessful, plans will be made to relocate radiologically contaminated heavy equipment to another DOE facility or ship out as LLW Cost has been included in this estimate for the size reduction of equipment to be sent out as LLW

PERSONNEL

Supervision per shift
Superintendent (2)
Field Engineer (1)

Craft Labor per shift
Laborers (12)
Operators (10)

EQUIPMENT

Purchase

EX450 Excavator with 700XP Shear (2)	\$831,346.00
EX450 Excavator with RB42 Pulverizer (1)	\$352,573 00
ZX800 Excavator with RB42 Pulverizer (1)	\$651,900.00
EX330 Excavator with Bucket/Thumb (2)	\$360,000.00
Volvo L150E Loader, 6 yard (2)	\$345,000.00
G90 Hammer Head (1)	\$84,400 00

Rental Rate Per Month

EX450 Excavator with 700XP Shear (2)	\$56,010.00
EX450 Excavator with RB42 Pulverizer (1)	\$24,095.00
ZX800 Excavator with RB42 Pulverizer (1)	\$35,000.00
EX330 Excavator with Bucket/Thumb (2)	\$22,370 00
Volvo L150E Loader, 6 yard (2)	\$20,856 00
G90 Hammer Head (1)	\$10,027.00

PRICING OPTIONS – In recommended order

(See attached pricing schedules for detail)

- #1 2 Shifts X 12 Hrs X 5 Days – 707/776/777 (End Date 3/9/05)
\$8,432,769.00
- #2 2 Shifts X 12 Hrs X 5 Days – 776/777/707 (End Date 3/2/05)
\$8,806,793.00
- #3 2 Shifts X 12 Hrs X 4 Days – 707/776/777 (End Date 4/14/05)
\$8,629,539.00
- #4 2 Shifts X 12 Hrs X 4 Days – 776/777/707 (End Date 4/6/05)
\$8,986,733.00
- #5 1 Shift X 10 Hrs X 6 Days – 707/776/777 (End Date 6/4/05)
\$7,776,669.00
- #6 1 Shift X 10 Hrs X 6 Days – 776/777/707 (End Date 5/25/05)
\$8,436,793.00

B707 GRADE BEAM/ FOUNDATION OPTION

4 day Schedule – Double Shift – Labor Cost Only
\$616,000 00

5 day Schedule – Double Shift – Labor Cost Only
\$657,800 00

***SUPERVISION COST NOT INCLUDED.**

****EQUIPMENT COST NOT INCLUDED**

Pricing Option #1

2 X 12 X 5 Day

707/776/777

End Date 3/9/05

Item	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	44	40	4	50 00	\$ 352,000 00
Mobilization								\$ 150,000 00
Labor - Clean Bldgs								
	Mon-Thurs	32	Day	22	52	8 00	50 00	\$ 457,600 00
	Fri	9	Day	22	18	9 00	50 00	\$ 178,200 00
	Mon-Fri	41	Night	22	60	8 20	50 00	\$ 541,200 00
Labor - 776/777								
	Mon-Thurs	59	Day	22	52	14 75	55 00	\$ 928,070 00
	Fri	14	Day	22	18	14	55 00	\$ 304,920 00
	Mon-Fri	73	Night	22	60	14 6	55 00	\$ 1,059,960 00
Supervision								
	Mon-Fri	114	Day	3	60	22 8	75 00	\$ 307,800 00
	Mon-Fri	114	Night	3	60	22 8	75 00	\$ 307,800 00
Equipment Buyout								\$ 2,625,219 00
Material/Repairs/Mtnce								\$ 750,000 00
776/777 Only Mtnce Shed								\$ 50,000 00
Decon Equipment/Hydro								\$ 100,000 00
Demobilization								\$ 320,000 00
Total								\$ 8,432,769.00

Pricing Option #2

2 X 12 X 5 Day

776/777/707

End Date 3/2/03

Item	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	44	40	4	50 00	\$ 352,000 00
Mobilization								\$ 150,000 00
Labor - 776/777								
	Mon-Thurs	60	Day	22	52	15 00	55 00	\$ 943,800 00
	Fri	15	Day	22	18	15 00	55 00	\$ 326,700 00
	Mon-Fri	75	Night	22	60	15 00	55 00	\$ 1,089,000 00
Labor - Clean Bldgs								
	Mon-Thurs	28	Day	22	52	7	50 00	\$ 400,400 00
	Fri	7	Day	22	18	7	50 00	\$ 138,600 00
	Mon-Fri	35	Night	22	60	7	50 00	\$ 462,000 00
Supervision								
	Mon-Fri	110	Day	3	60	22	75 00	\$ 297,000 00
	Mon-Fri	110	Night	3	60	22	75 00	\$ 297,000 00
Equipment Buyout								\$ 2,625,219 00
Equipment Lease (3 months)								\$ 505,074 00
Material/Repairs/Mtnce								\$ 750,000 00
776/777 Only Mtnce Shed								\$ 50,000 00
Decon Equipment/Hydro								\$ 100,000 00
Demobilization								\$ 320,000 00
Total								\$ 8,806,793.00

Pricing Option #3

2 X 12 X 4 Day

707/776/777

End Date 4/14/05

Item	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	44	40	4	50 00	\$ 352,000 00
Mobilization								\$ 150,000 00
Labor - Clean Bldgs								
	Mon-Thurs	38	Day	22	52	9 50	50 00	\$ 543,400 00
	Mon-Thurs	38	Night	22	60	9 50	50 00	\$ 627,000 00
Labor - 776/777								
	Mon-Thurs	74	Day	22	52	18 5	55 00	\$ 1,164,020 00
	Mon-Thurs	74	Night	22	60	18 5	55 00	\$ 1,343,100 00
Supervision								
	Mon-Thurs	112	Day	3	48	28	75 00	\$ 302,400 00
	Mon-Thurs	112	Night	3	48	28	75 00	\$ 302,400 00
Equipment Buyout								\$ 2,625,219 00
Material/Repairs/Mtnce								\$ 750,000 00
776/777 Only Mtnce Shed								\$ 50,000 00
Decon Equipment/Hydro								\$ 100,000 00
Demobilization								\$ 320,000 00
Total								\$ 8,629,539.00

Pricing Option #4

2 X 12 X 4 Days

776/777/707

End Date 4/6/05

Item	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	44	40	4	50 00	\$ 352,000 00
Mobilization								\$ 150,000 00
Labor - 776/777								
	Mon-Thurs	73	Day	22	52	18 25	55 00	\$ 1,148,290 00
	Mon-Thurs	73	Night	22	60	18 25	55 00	\$ 1,324,950 00
Labor - Clean Bldgs								
	Mon-Thurs	35	Day	22	52	8 75	50 00	\$ 500,500 00
	Mon-Thurs	35	Night	22	60	8 75	50 00	\$ 577,500 00
Supervision								
	Mon-Thurs	108	Day	3	48	27	75 00	\$ 291,600 00
	Mon-Thurs	108	Night	3	48	27	75 00	\$ 291,600 00
Equipment Buyout								\$ 2,625,219 00
Equipment Lease (3 month)								\$ 505,074 00
Material/Repairs/Mtnce								\$ 750,000 00
776/777 Only Mtnce Shed								\$ 50,000 00
Decon Equipment/Hydro								\$ 100,000 00
Demobilization								\$ 320,000 00
Total								\$ 8,986,733.00

Pricing Option #5

1 X 10 X 6 Days

707/776/777

End Date 6/4/05

Item	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	22	40	4	50 00	\$176,000 00
Mobilization								\$150,000 00
Labor - Clean Bldgs								
	Mon-Thurs	36	Day	22	40	9 00	50 00	\$396,000 00
	Fri-Sat	20	Day	22	30	10 00	50 00	\$330,000 00
Labor - 776/777								
	Mon-Thurs	91	Day	22	40	22 75	55 00	\$1,101,100 00
	Fri-Sat	44	Day	22	30	22	55 00	\$798,600 00
Supervision								
	Mon-Sat	191	Day	3	60	31 83	75 00	\$429,750 00
Equipment Buyout								\$2,625,219 00
Material/Repairs/Mtnce								\$1,300,000 00
776/777 Only Mtnce Shed								\$50,000 00
Decon Equipment/Hydro								\$100,000 00
Demobilization								\$320,000 00
Total								\$7,776,669.00

Pricing Option #6

1 X 10 X 6 Days

776/777/707

End Date 5/25/05

Item	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	22	40	4	50 00	\$176,000 00
Mobilization								\$150,000 00
Labor - 776/777								
	Mon-Thurs	90	Day	22	40	22 50	55 00	\$1,089,000 00
	Fri-Sat	45	Day	22	30	22 50	55 00	\$816,750 00
Labor - Clean Bldgs								
	Mon-Thurs	43	Day	22	40	10 75	50 00	\$473,000 00
	Fri-Sat	23	Day	22	30	11 5	50 00	\$379,500 00
Supervision								
	Mon-Sat	201	Day	3	60	33 50	75 00	\$452,250 00
Equipment Buyout								\$2,625,219 00
Equipment Lease (3 month)								\$505,074 00
Material/Repairs/Mtnce								\$1,300,000 00
776/777 Only Mtnce Shed								\$50,000 00
Decon Equipment/Hydro								\$100,000 00
Demobilization								\$320,000 00
Total								\$8,436,793.00

